PTO/SB/05 (08-03)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	SHX 343	
First Inventor	Satoshi ISHII	
Title	BALL END MILL	
Express Mail Label No.	EV 325398198 US	

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APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450							
2. X Applic See 3: 3. X Specif (prefer - Descr - Cross - State: - Refer or a c - Back - Brief	ransmittal Form (e.g., PTO/SB/17) t an original and a duplicate for fee processing) ant claims small entity status. 7 CFR 1.27. fication [Total Pages13 red arrangement set forth below) riptive title of the invention is Reference to Related Applications ment Regarding Fed sponsored R & D ence to sequence listing, a table, computer program listing appendix ground of the Invention Summary of the Invention Description of the Drawings (if filed) led Description	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies							
- Claim		ACCOMPANYING APPLICATION PARTS							
- Abstra 4.	act of the Disclosure Ing(s) (35 U.S.C. 113) [Total Sheets	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. X Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. X Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other:							
18. If a CONTI	NUING APPLICATION, check appropriate box,	and supply the requisite information below and in the first sentence of the							
specification for	llowing the title, or in an Application Data Sheet	under 37 CFR 1.76:							
Contin	nuation Divisional	Continuation-in-part (CIP) of prior application No.:							
Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box									
5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.									
The incorporation		n inadvertently omitted from the submitted application parts.							
Custom	ner Number: 23581	OR Correspondence address below							
Name	Anton E. Skaugset								
Address Kolisch Hartwell, P.C. 520 S.W. Yamhill Street, Suite 200									
City	Portland	State Oregon Zip Code 97204							
Country	United States	Telephone (503) 224-6655 Fax (503) 295-6679							
Name (Print/Type) Anton E. Skaugset Registration No. (Attorney/Agent) 38,617									
Signature Date October 21, 2003									

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL		Complete if Known						
FEE IKANSWIIIAL			Application Number					
for EV 2004		Filing Date			· · · · · · · · · · · · · · · · · · ·			
for FY 2004		First Named Inventor		ntor	Satoshi ISHII			
Effective 10/01/2003. Patent fees are subject to annual revision.		Examiner Name				***		
Applicant claims small entity status. See 37 CFR 1.27		- Art Unit						
TOTAL AMOUNT OF PAYMENT (\$) 425.00	ŀ	Attorney Docket No. SHX 343						
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
Check Credit card Money Other None		3. ADDITIONAL FEES						
Deposit Account:	Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe							
Deposit 11-1540	Code		Code			Fee Description	Fee Paid	
Number	1051		2051			arge - late filing fee or oath		
Account Kollsch Hartwell, P.C.	1052	50	2052	25	cover	arge - late provisional filing fee or sheet		
Name The Director is authorized to: (check all that apply)	1053		1053			nglish specification		
Charge fee(s) indicated below Credit any overpayments		2,520	1812 2			ng a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*		esting publication of SIR prior to iner action		
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805 1	,840*	Reque	esting publication of SIR after iner action		
to the above-identified deposit account.		110	2251	55		sion for reply within first month		
FEE CALCULATION	1251 1252		2252	210		sion for reply within second month		
1. BASIC FILING FEE Large Entity Small Entity	1253		2253			sion for reply within third month		
Fee Fee Fee Fee Paid		1,480	2254	740		sion for reply within fourth month		
Code (\$) Code (\$)	1255	2,010	2255			sion for reply within fifth month	•	
1001 770 2001 385 Utility filing fee 385.00 1002 340 2002 170 Design filing fee	1401	•	2401			e of Appeal		
1003 530 2003 265 Plant filling fee	1402		2402			a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403		2403			est for oral hearing		
1005 160 2005 80 Provisional filing fee		1,510	1451			on to institute a public use proceeding		
	1452	•	2452			on to revive - unavoidable		
SUBTOTAL (1) (\$) 385.00	ľ	1,330	2453	665	Petitio	on to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1	1,330	2501			issue fee (or reissue)		
Fee from Ext <u>ra Claims below Fee Paid</u>	1502		2502		-	n issue fee		
Total Claims20** = X =	1503	640	2503		-	issue fee		
Independent - 3** = X = X	1460	130	1460	130	Petitio	ons to the Commissioner		
Multiple Dependent	1807	50	1807	50	Proce	essing fee under 37 CFR 1.17(q)		
Large Entity Small Entity	1806		1806			ission of Information Disclosure Stmt		
Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021		8021	40		ding each patent assignment per rty (times number of properties)	40.00	
1202 18 2202 9 Claims in excess of 20	1809		2809	205		rty (times number of properties) a submission after final rejection		
1201 86 2201 43 Independent claims in excess of 3	1009	770	2009	303		FR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385		ach additional invention to be		
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385		ined (37 CFR 1.129(b)) uest for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802		1802		Requ	uest for expedited examination (RCE) lesign application		
SUBTOTAL (2) (\$)			ecify) _					
**or number previously paid, if greater; For Reissues, see above	*Red	uced by	Basic F	iling Fe	ee Paid	SUBTOTAL (3) (\$) 40.0	0	
CUDMITTED DV						(Complete (if confinct let)		

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Registration No.

(Attorney/Agent)

38,617

Telephone (503) 224-6655

October 21, 2003

Date

Name (Print/Type)

Signature

Anton E. Skaugset

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

October 21, 2003

Satoshi Ishii and Takeshi Watanabe

For

BALL END MILL

Our Docket:

SHX 343

Mail Stop: Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313

Sir:

EV325398198US

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10 Express Mail Label No. EV325398198US

I hereby certify that the attached patent application of Satoshi Ishii and Takeshi Watanabe, accompanied by 4 sheets of drawings, a Declaration/Power of Attorney, an Assignment, an Information Disclosure Statement, a certified copy of Japanese priority application 2002-311218, and a check for \$425.00, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to the Commissioner for Patents, Alexandria, Virginia 22313.

Respectfully submitted, KOLISCH HARTWELL, P.C.

Date of Mailing

Anton E. Skaugset

Registration No. 38,617

Of Attorneys/Agents for Applicants

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AES:gp Enclosures